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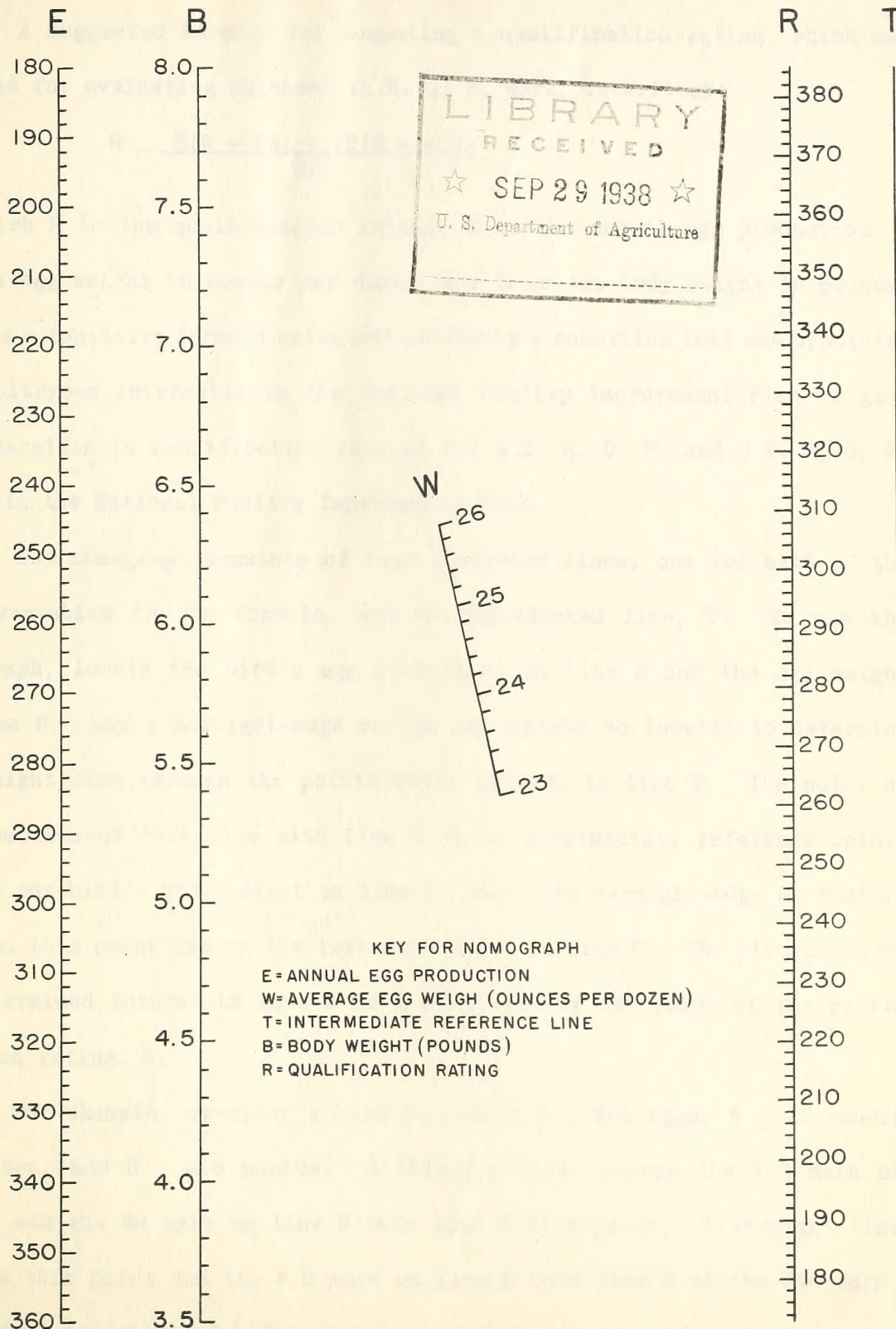
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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF ANIMAL INDUSTRY
ANIMAL HUSBANDRY DIVISION

NOMOGRAPH FOR COMPUTING QUALIFICATION RATINGS OF CHICKENS

E   B   R   T

KEY FOR NOMOGRAPH
E = ANNUAL EGG PRODUCTION
W = AVERAGE EGG WEIGH (OUNCES PER DOZEN)
T = INTERMEDIATE REFERENCE LINE
B = BODY WEIGHT (POUNDS)
R = QUALIFICATION RATING

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Animal Husbandry Division,
Bureau of Animal Industry,
U. S. Department of Agriculture.

A suggested formula for computing a qualification rating, which may be used for evaluating chickens in R. O. P. work, is written:

$$R = \frac{E(W - 14) + 70(B - 4.5)}{10}$$

in which R is the qualification rating, E is the annual egg production, W is the egg weight in ounces per dozen, and B is the body weight in pounds. This is a tentative formula being considered by a committee that was appointed by poultrymen interested in the National Poultry Improvement Plan to give consideration to qualification ratings for U.S. R. O. P. and U.S. R. O. M. birds in the National Poultry Improvement Plan.

The nomograph consists of four graduated lines, one for each of the four variables in the formula, and an ungraduated line, T. To use the nomograph, locate the bird's egg production on line E and the egg weight on line W. Lay a straight-edge on the two points so located to determine a straight line through the points which extends to line T. The point of intersection of this line with line T is an intermediate reference point. Locate the bird's body weight on line B. Move the straight-edge so that it lies on this point and on the reference point on line T. The straight line so determined intersects line R in a point giving the value of the quali-fication rating, R.

For example, consider a bird for which E = 200 eggs, W = 24 ounces per dozen, and B = 4.5 pounds. A straight line through the 200 mark on line E and the 24 mark on line W cuts line T at a point. A straight line between this point and the 4.5 mark on line B cuts line R at the 200 mark. Therefore, the value of R for this bird is 200. It is evident that a value of R equal to 200 denotes a very good chicken.

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A suggested formula for computing a qualification rating, which may be used for evaluating chickens in R. O. P. work, is written:

$$R = \frac{EIW - 14J + 70IB - 4.5J}{10}$$

in which R is the qualification rating, E is the annual egg production, W is the egg weight in ounces per dozen, and B is the body weight in pounds. This is a tentative formula being considered by a committee that was appointed by poultrymen interested in the National Poultry Improvement Plan to give consideration to qualification ratings for U.S. R. O. P. and U.S. R. O. M. birds in the National Poultry Improvement Plan.

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For example, consider a bird for which E = 200 eggs, W = 24 ounces per dozen, and B = 4.5 pounds. A straight line through the 200 mark on line E and the 24 mark on line W cuts line T at a point. A straight line between this point and the 4.5 mark on line B cuts line R at the 500 mark. Therefore, the value of R for this bird is 500. It is evident that a value of R equal to 500 denotes a very good chicken.